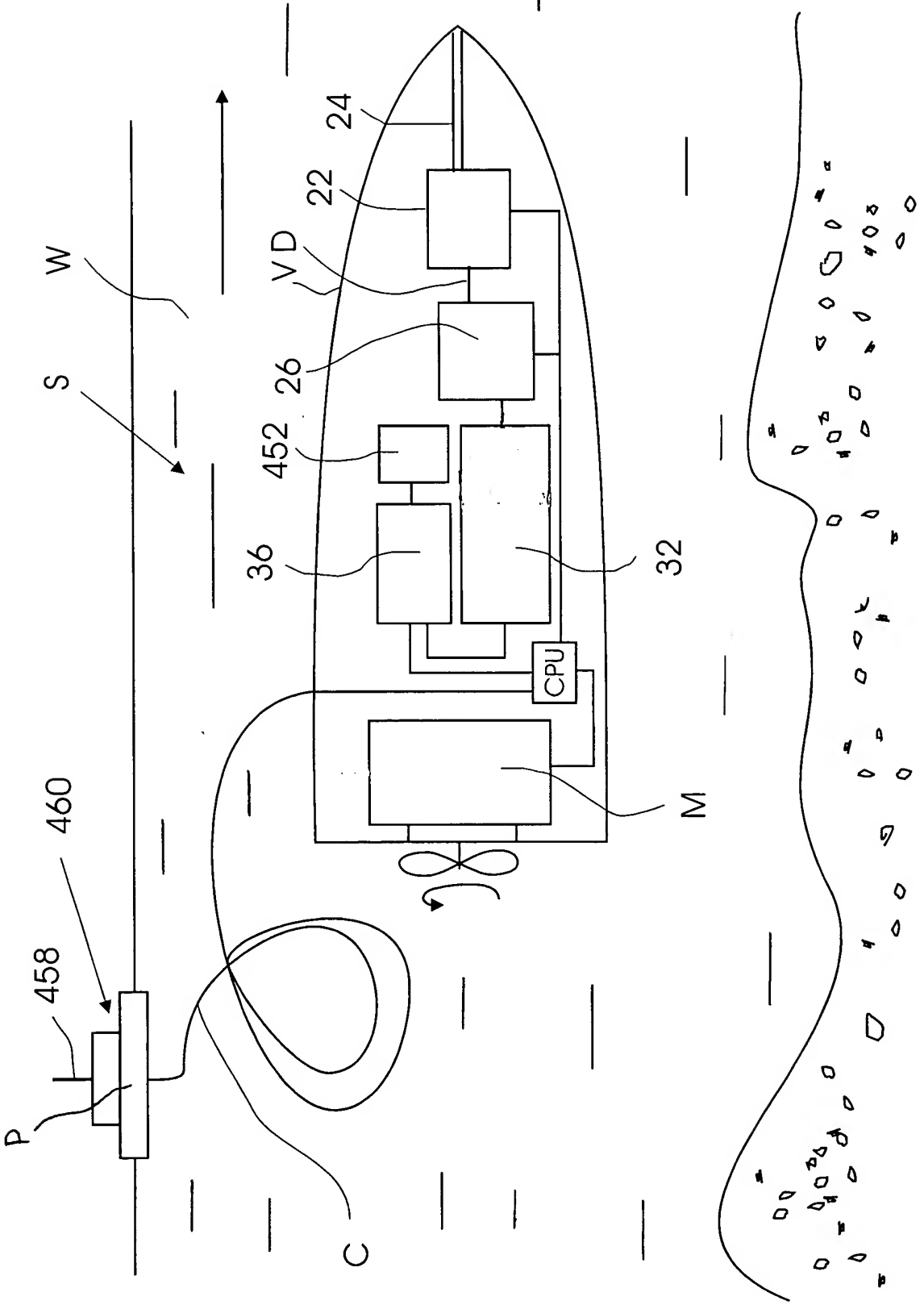


Fig. 1A

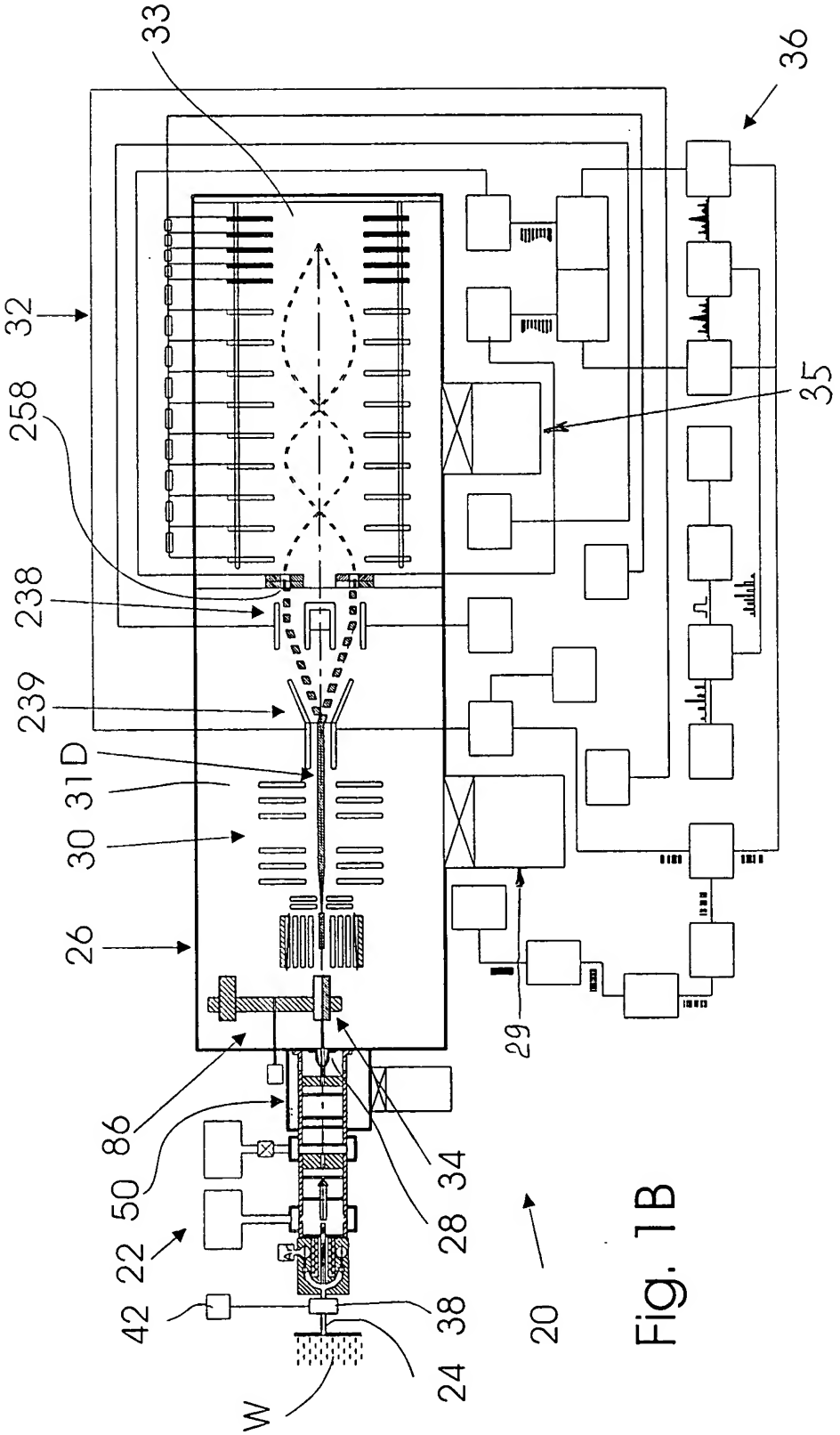


Fig. 1B

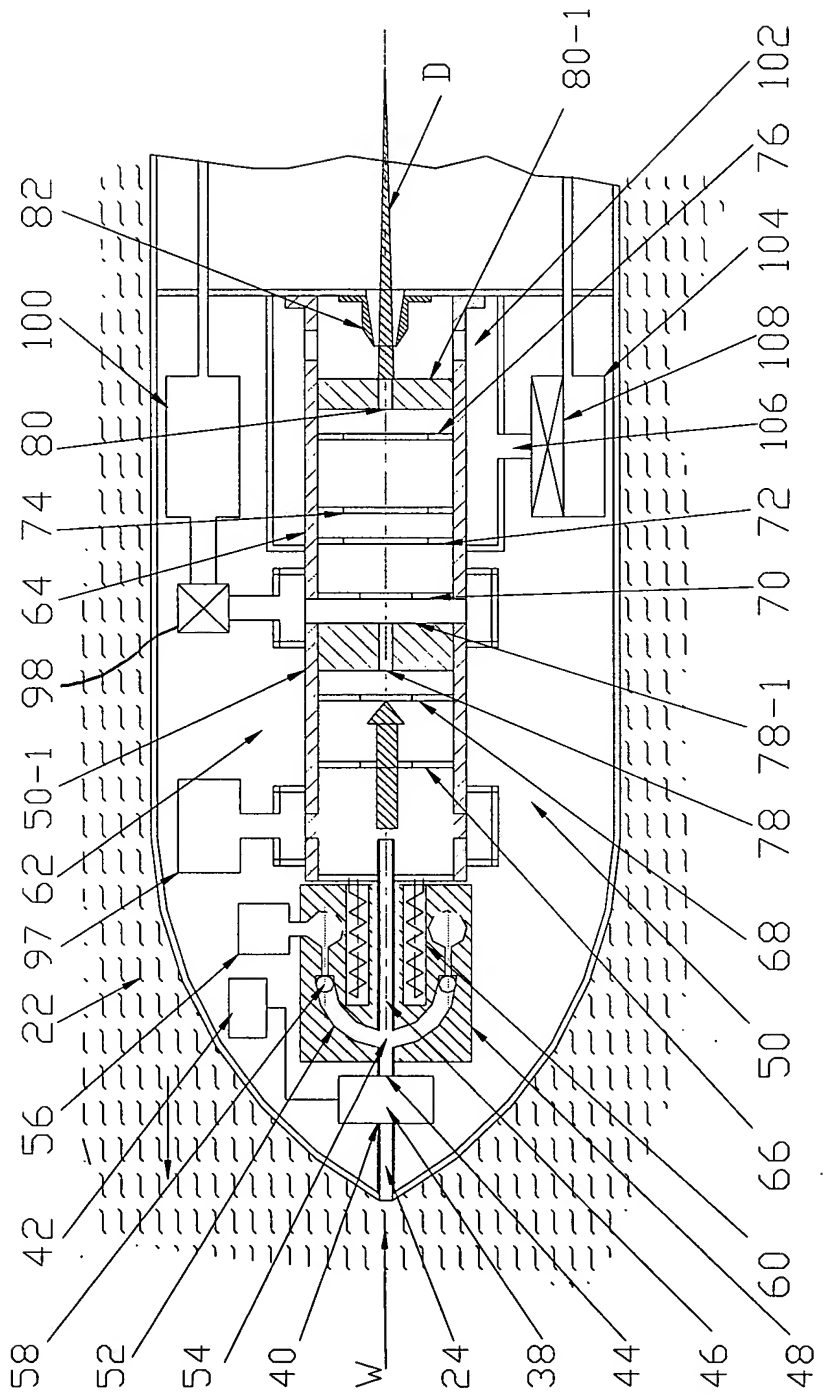

D
80-1
102
76
104
82
108
100
106
80
72
74
70
64
78-1
98
78
50-1
68
62
50
97
66
22
60
56
48
42
46
58
44
52
38
54
24
40
W

Fig.2

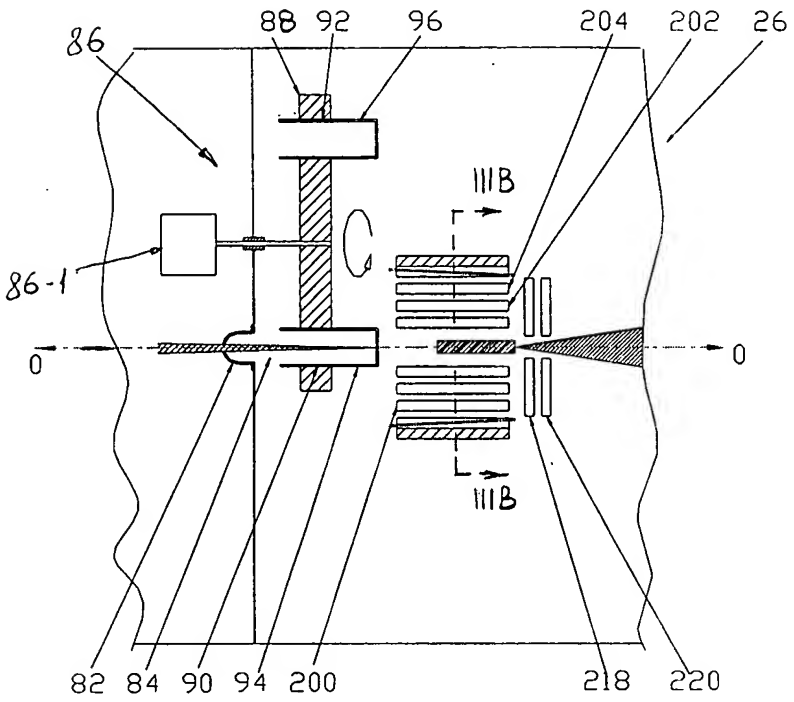

86
88
92
96
204
202
26
IIIB
86-1
C
0
0
IIIB
82
84
90
94
200
218
220

Fig. 3A

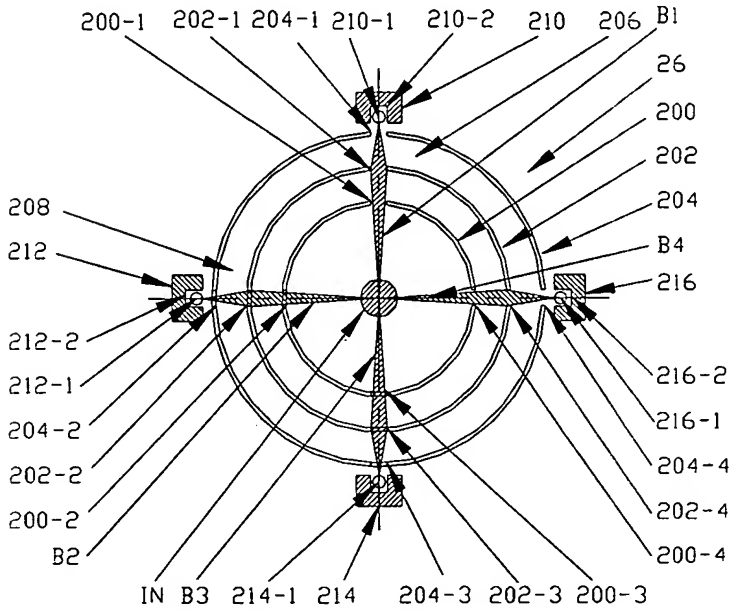

200-1
202-1
204-1
210-1
210-2
210
206
B1
26
200
202
204
B4
216
208
212
212-2
212-1
204-2
202-2
200-2
B2
IN
B3
214-1
214
204-3
202-3
200-3
216-2
216-1
204-4
202-4
200-4

Fig. 3B

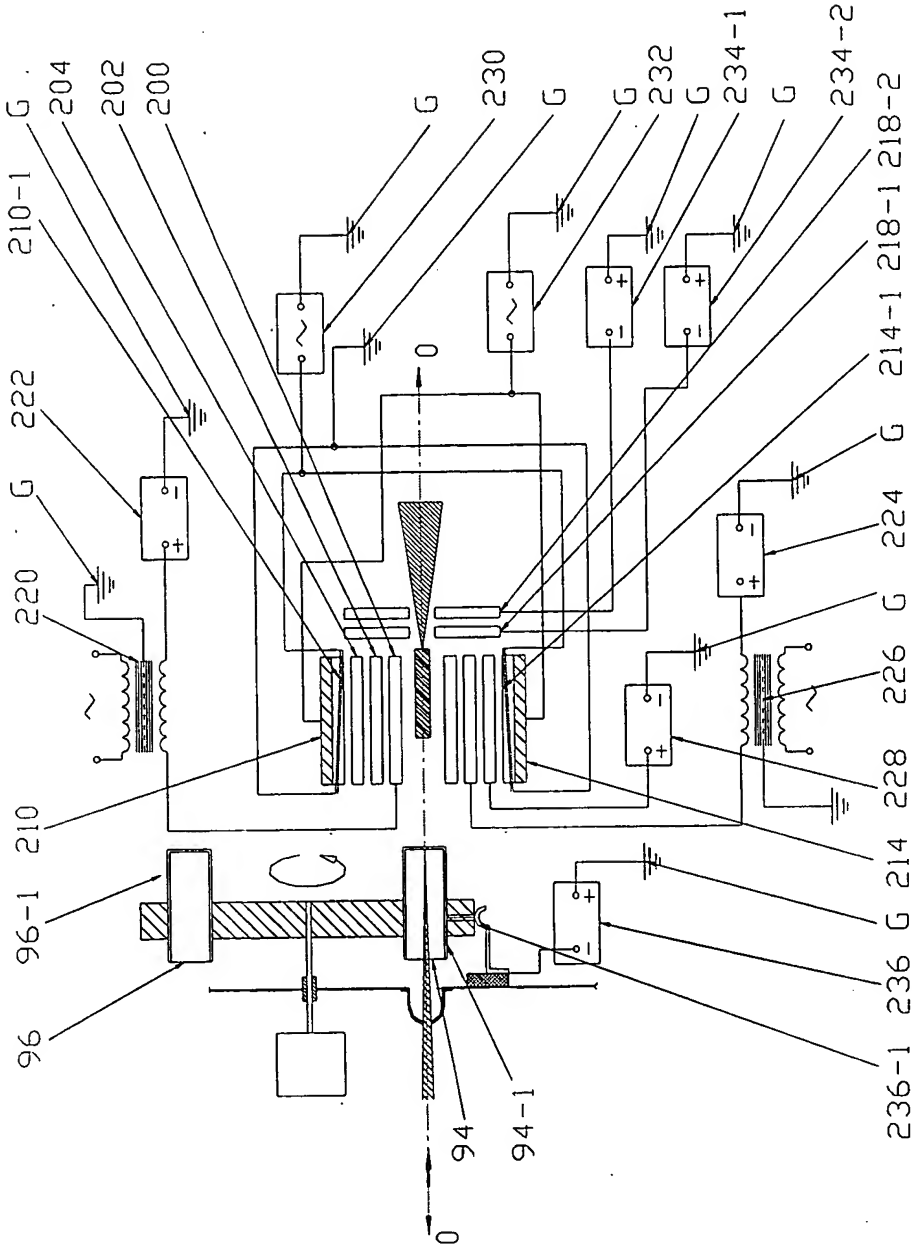

G
204
202
200
210-1
222
G
220
210
96-1
96
G
230
G
232
G
234-1
G
234-2
218-1
218-2
214-1
G
224
G
226
228
214
G
236
236-1
94
94-1
0
0

Fig. 4

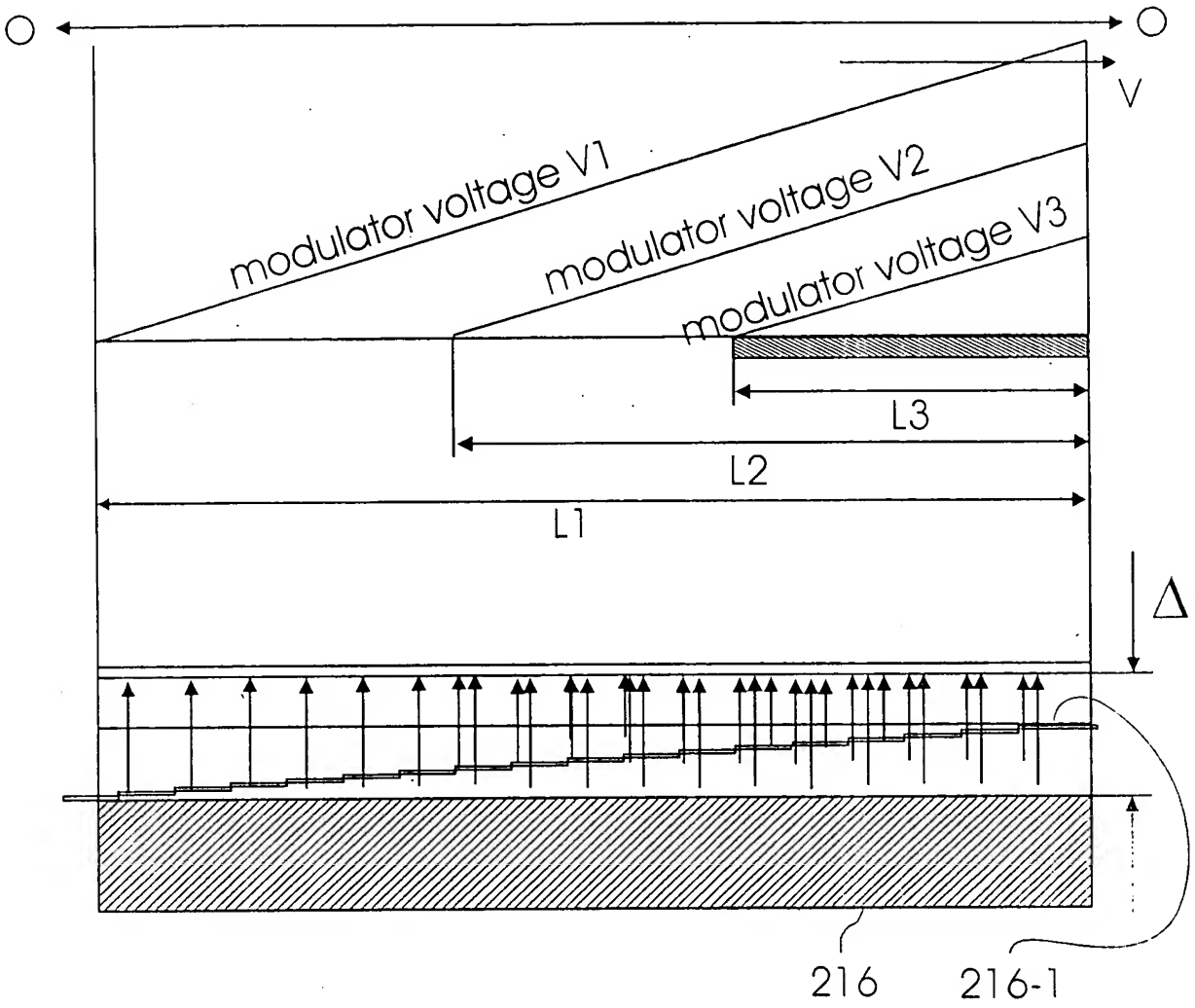

V
modulator voltage V1
modulator voltage V2
modulator voltage V3
L3
L2
L1
Δ
216
216-1

Fig. 5

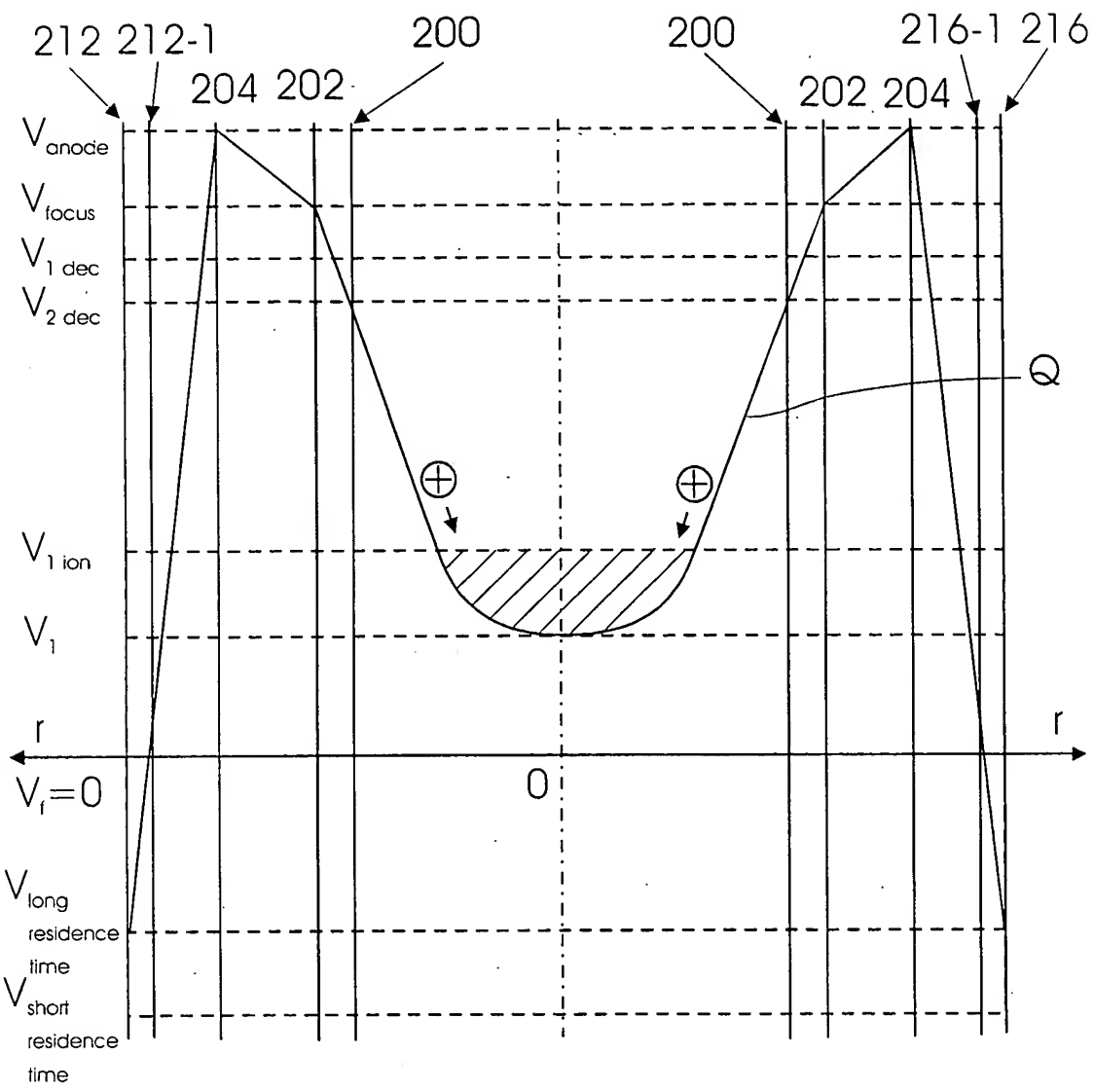

212
212-1
204
202
200
200
202
204
216-1
216
V_{anode}
V_{focus}
$V_{1\ dec}$
$V_{2\ dec}$
Q
$V_{1\ ion}$
V_1
r
r
$V_f=0$
0
$V_{long\ residence\ time}$
$V_{short\ residence\ time}$

Fig. 6

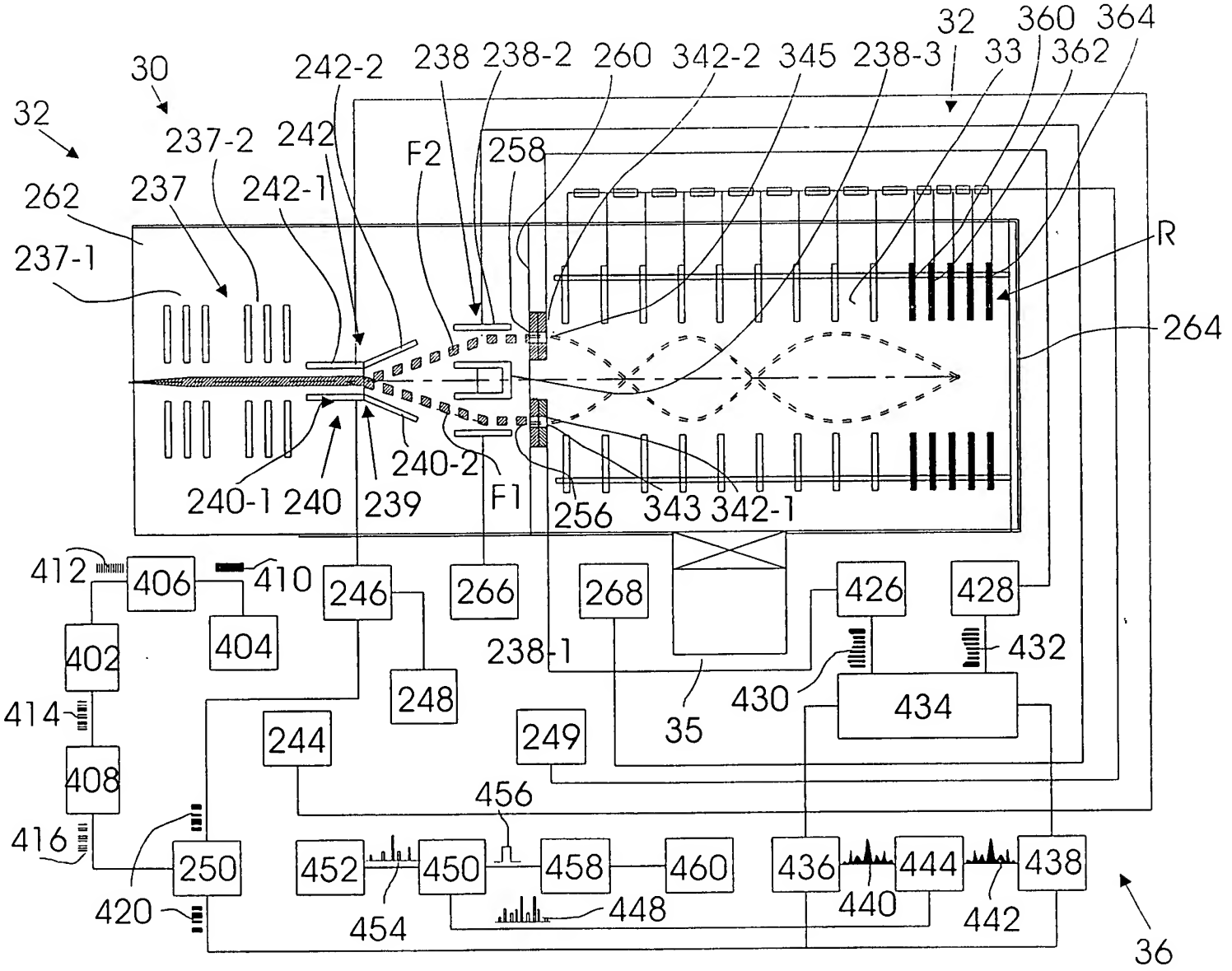

30
32
33
360
362
364
242-2
238
238-2
260
342-2
345
238-3
237-2
242
F2
258
262
237
242-1
237-1
R
264
240-2
240-1
240
239
F1
256
343
342-1
412
406
410
246
266
268
426
428
402
404
238-1
432
248
414
244
249
35
430
434
408
456
416
250
452
450
458
460
436
444
438
420
454
448
440
442
36

Fig. 7

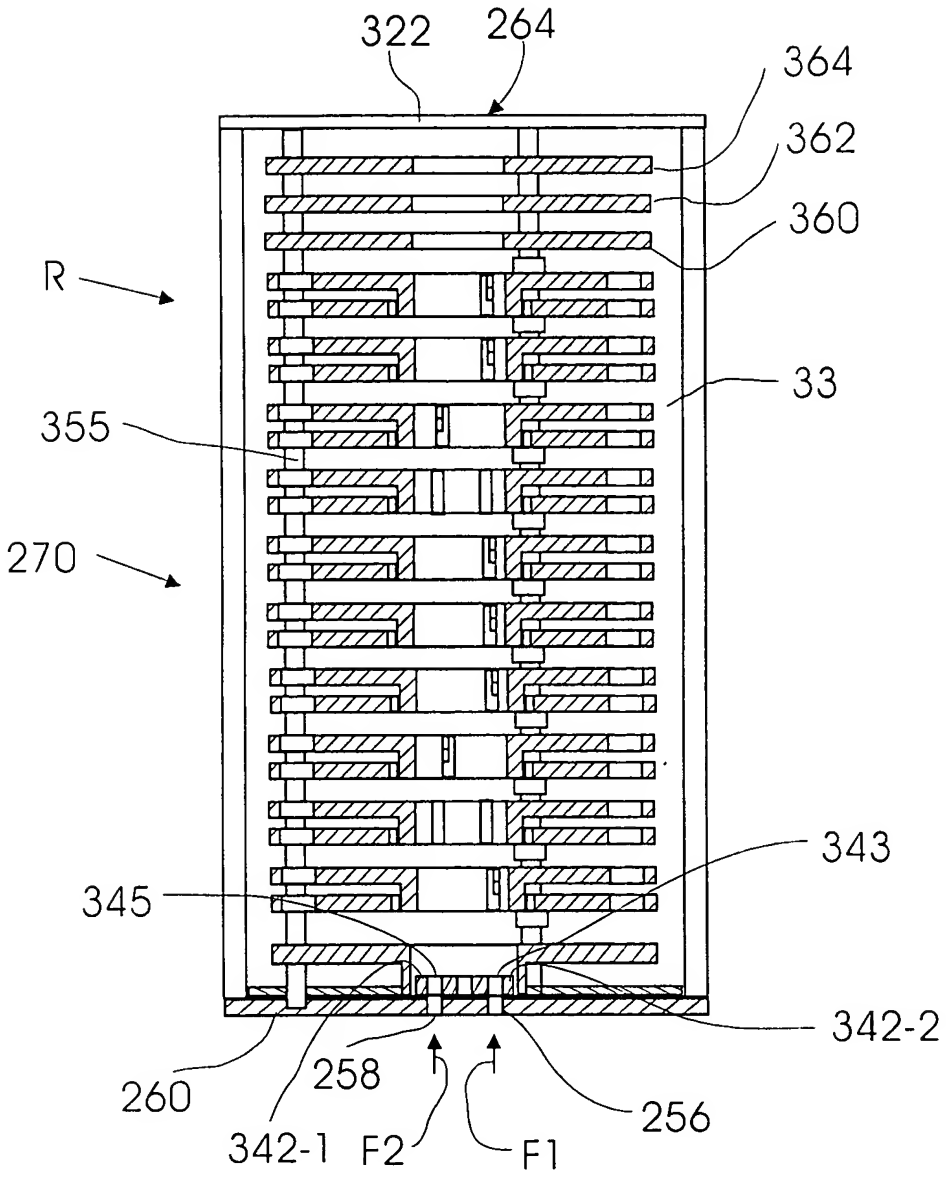

322
264
364
362
360
R
33
355
270
343
345
342-2
260
258
256
342-1
F2
F1

Fig. 8

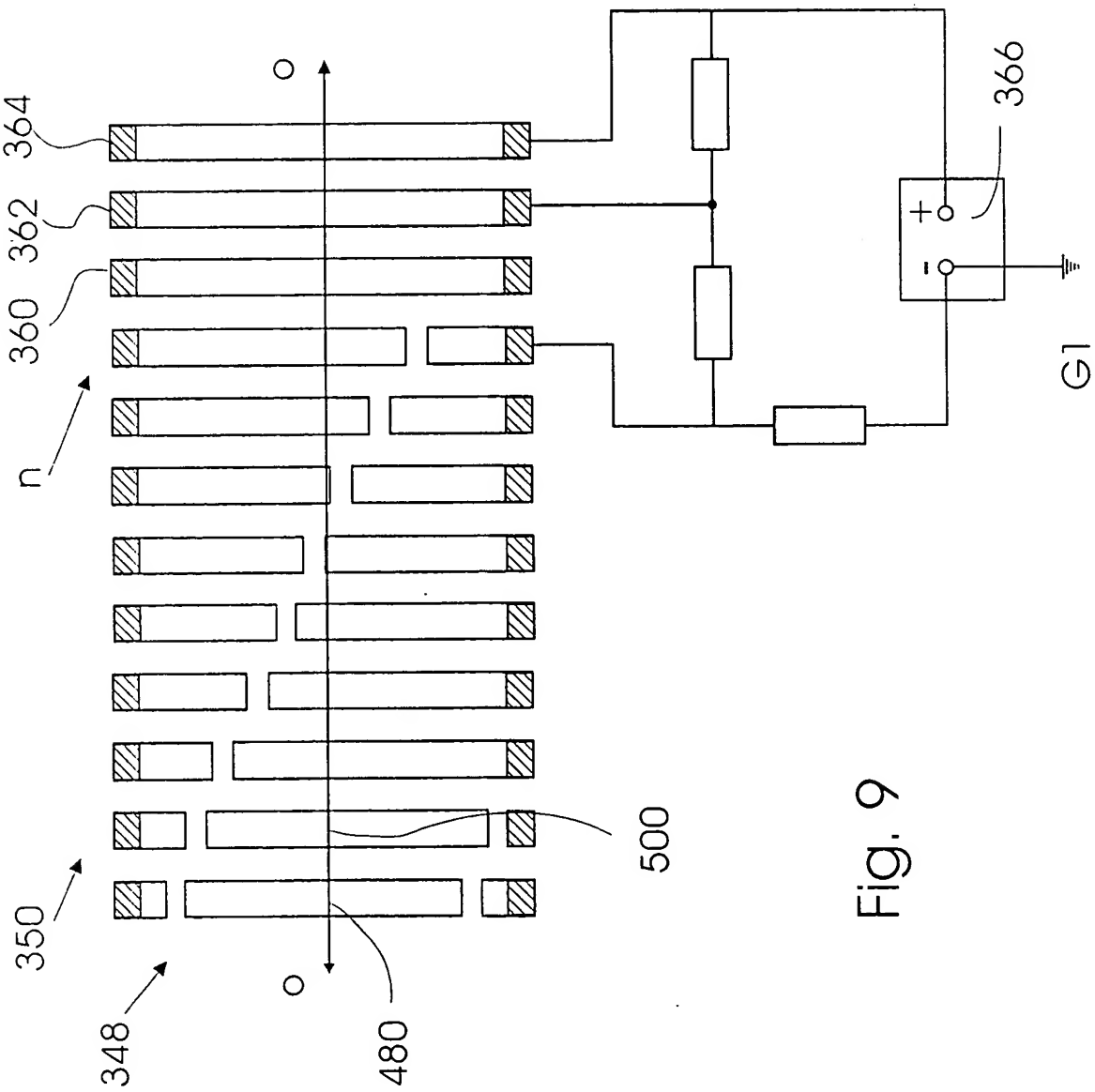


Fig. 9

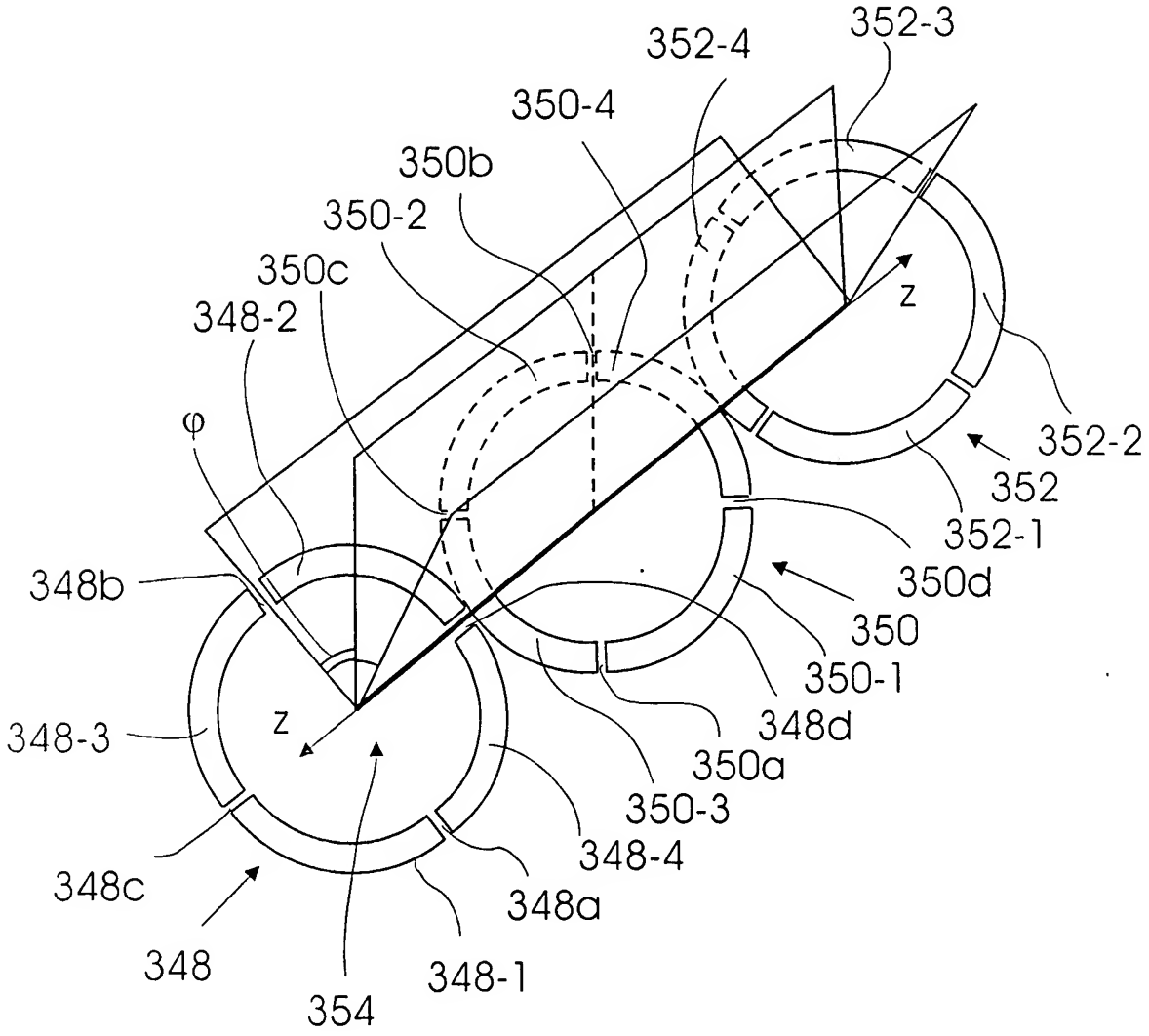

352-3
352-4
350-4
350b
350-2
350c
348-2
φ
z
352-2
352
352-1
350d
348b
350
350-1
348d
348-3
z
350a
350-3
348-4
348c
348a
348
348-1
354

Fig. 10

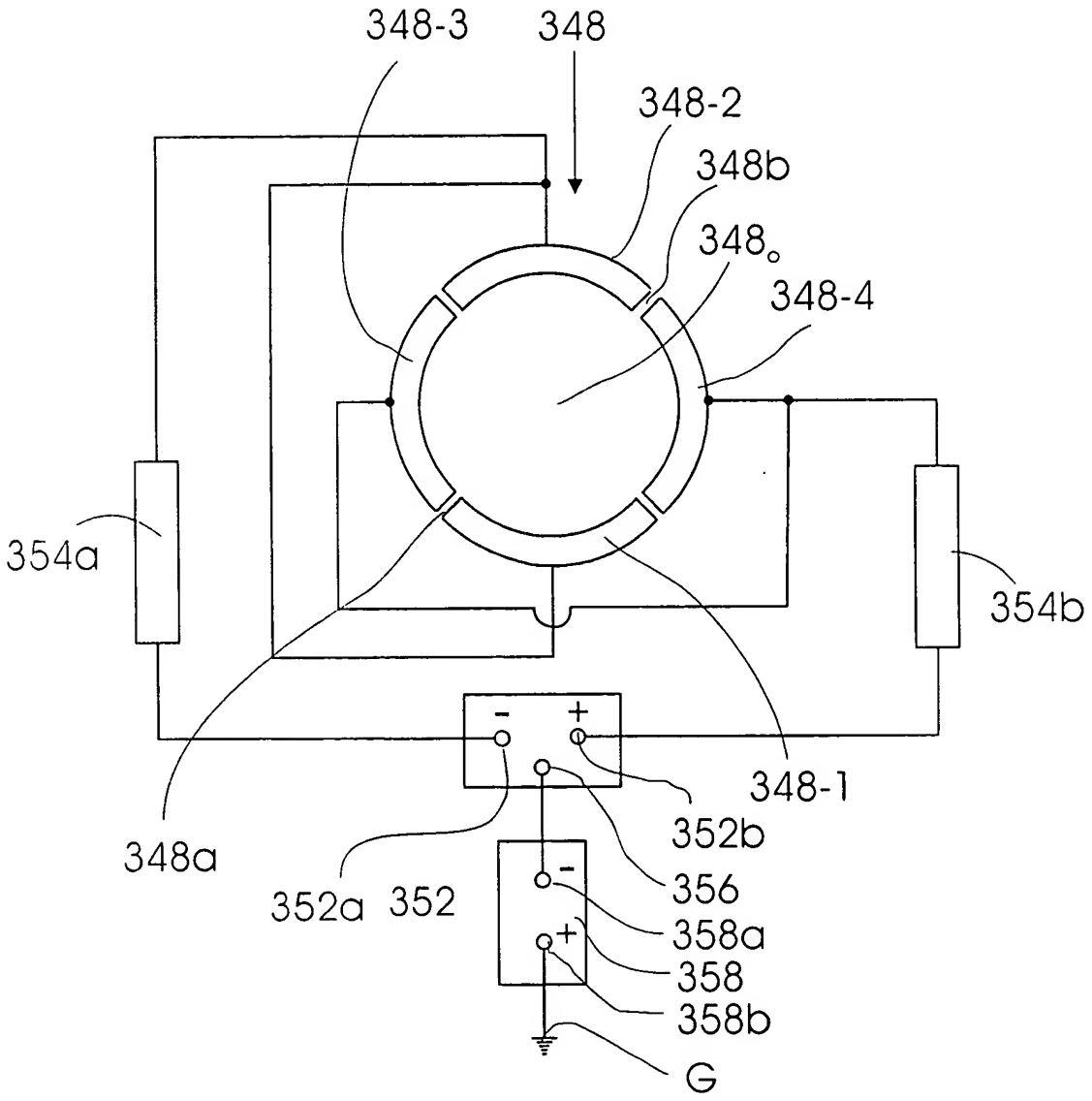

348-3
348
348-2
348b
348o
348-4
354a
354b
348-1
348a
352b
352a
352
356
358a
358
358b
G

Fig. 11

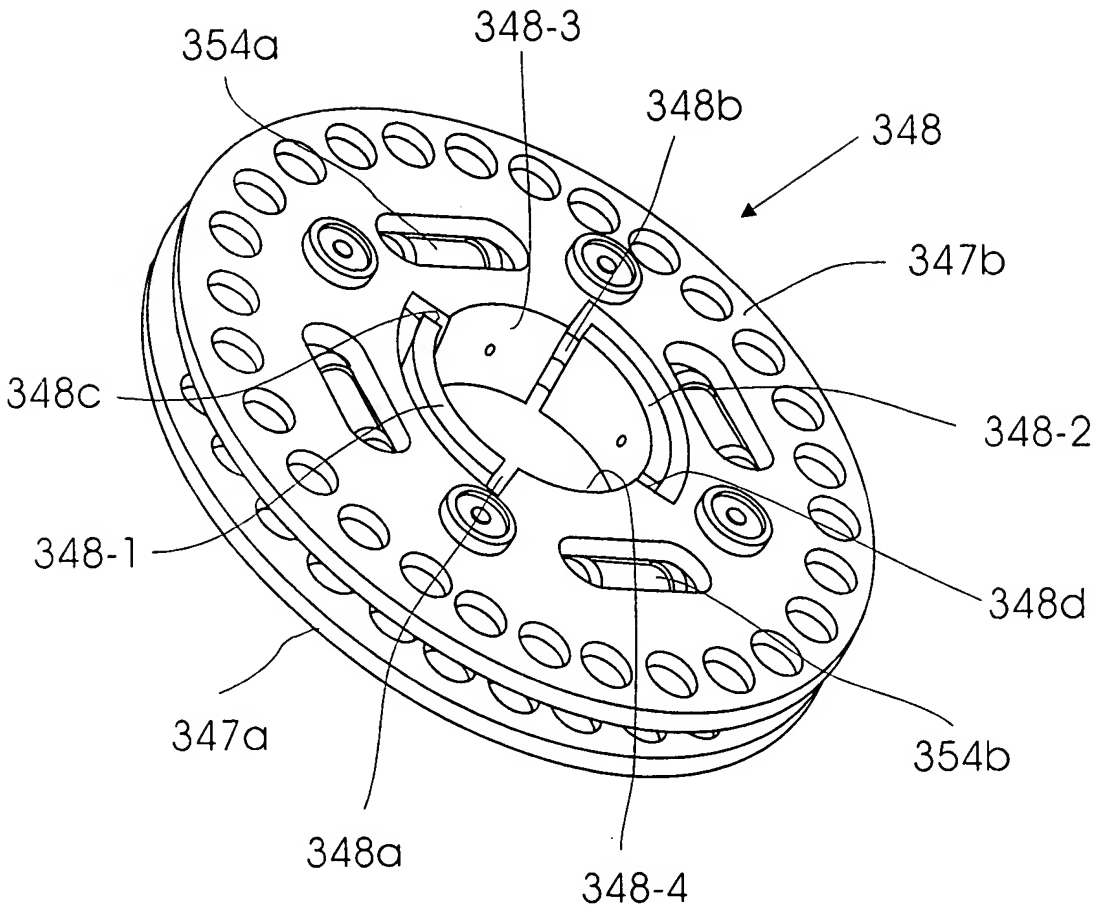

354a
348-3
348b
348
347b
348c
348-2
348-1
348d
347a
354b
348a
348-4

Fig. 12

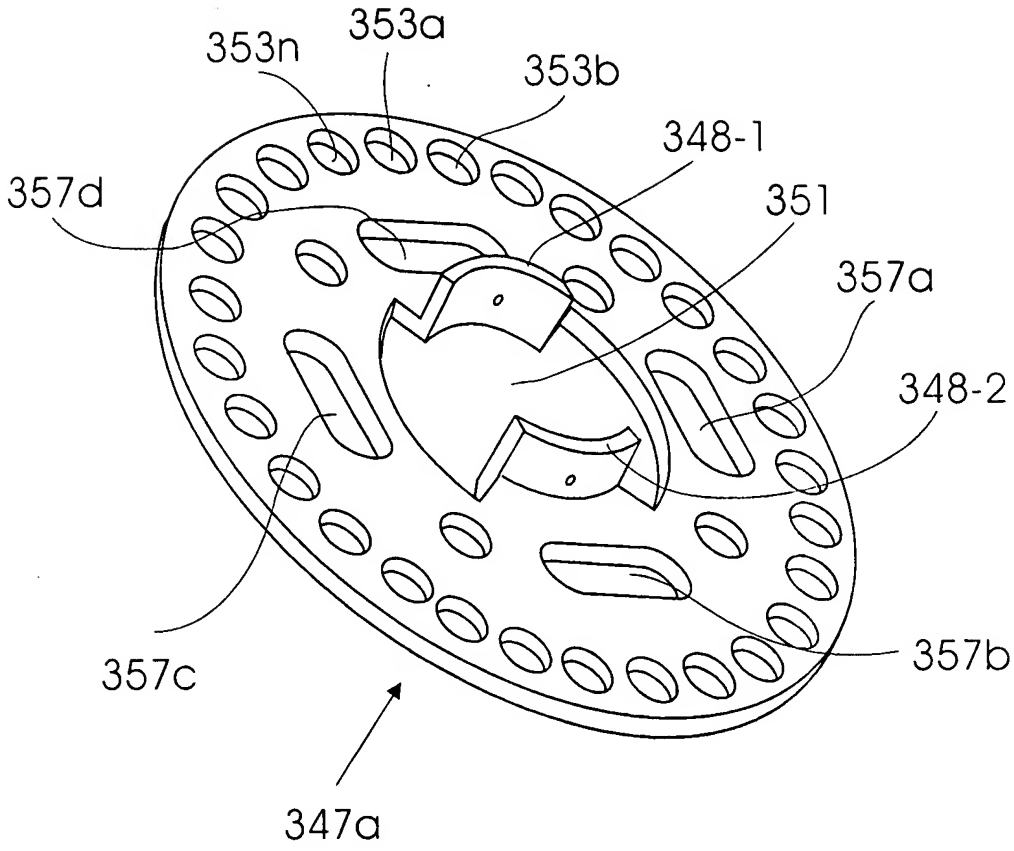


Fig. 13

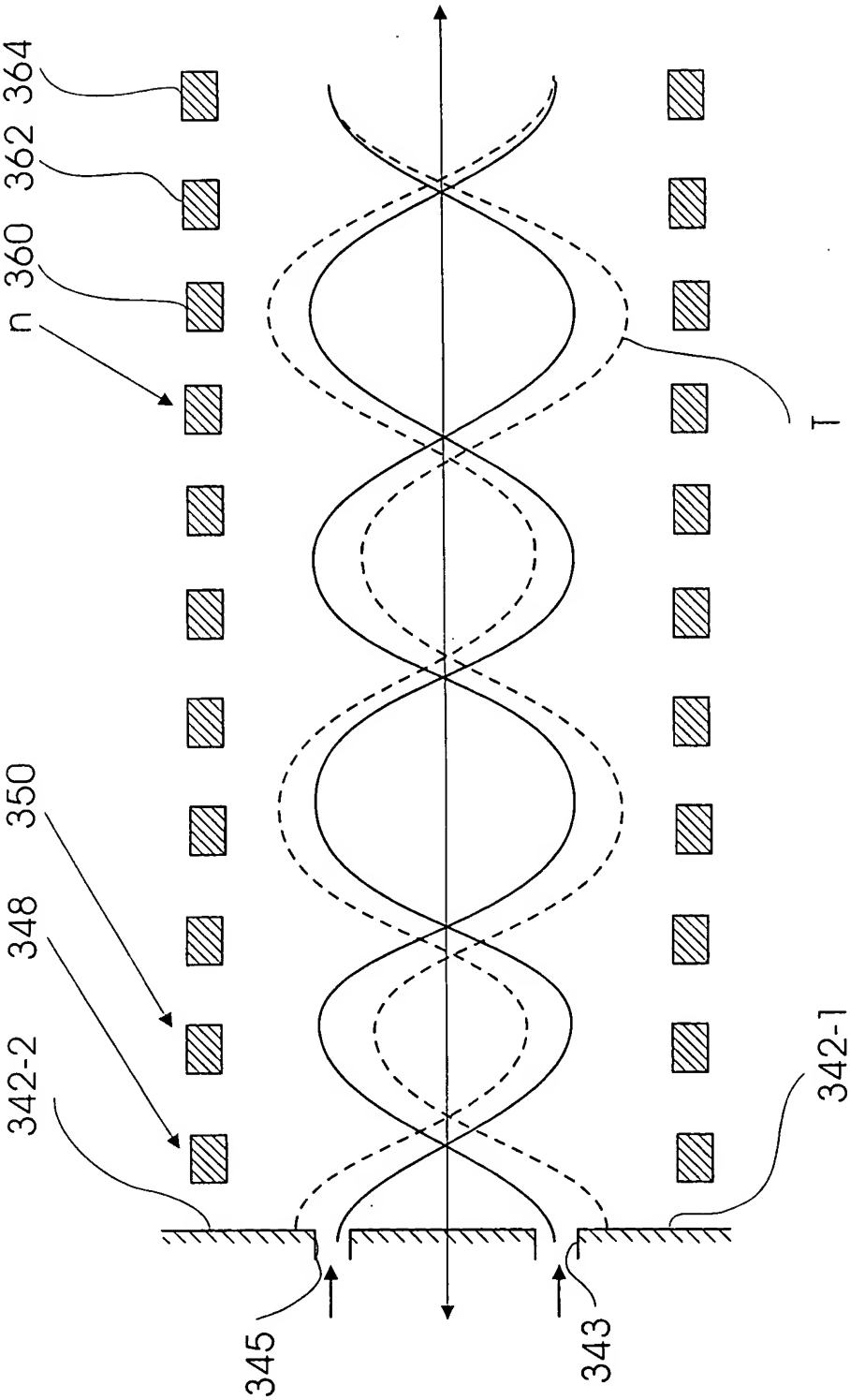


Fig. 14

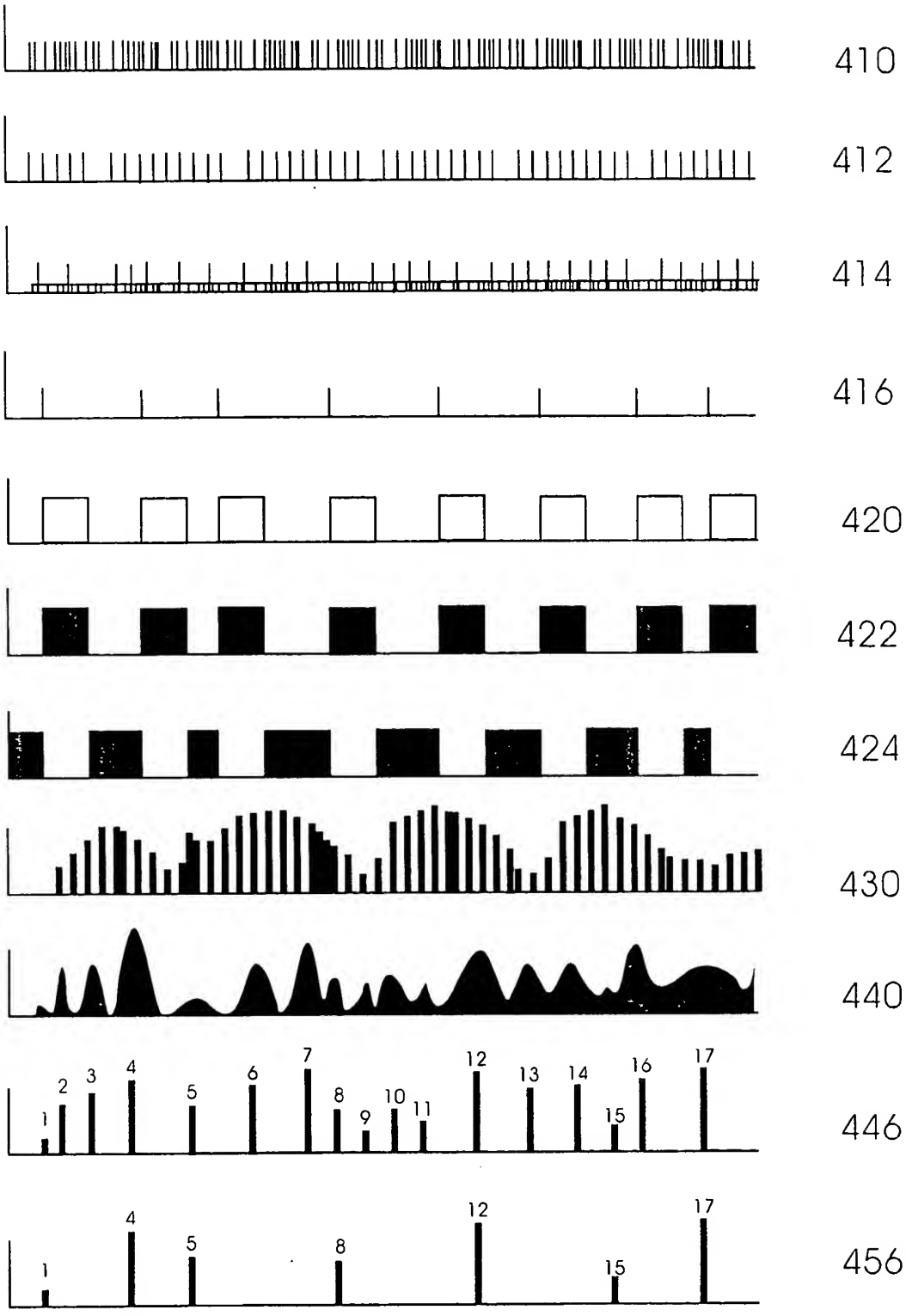

410
412
414
416
420
422
424
430
440
446
456
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Fig. 15

Fig. 16

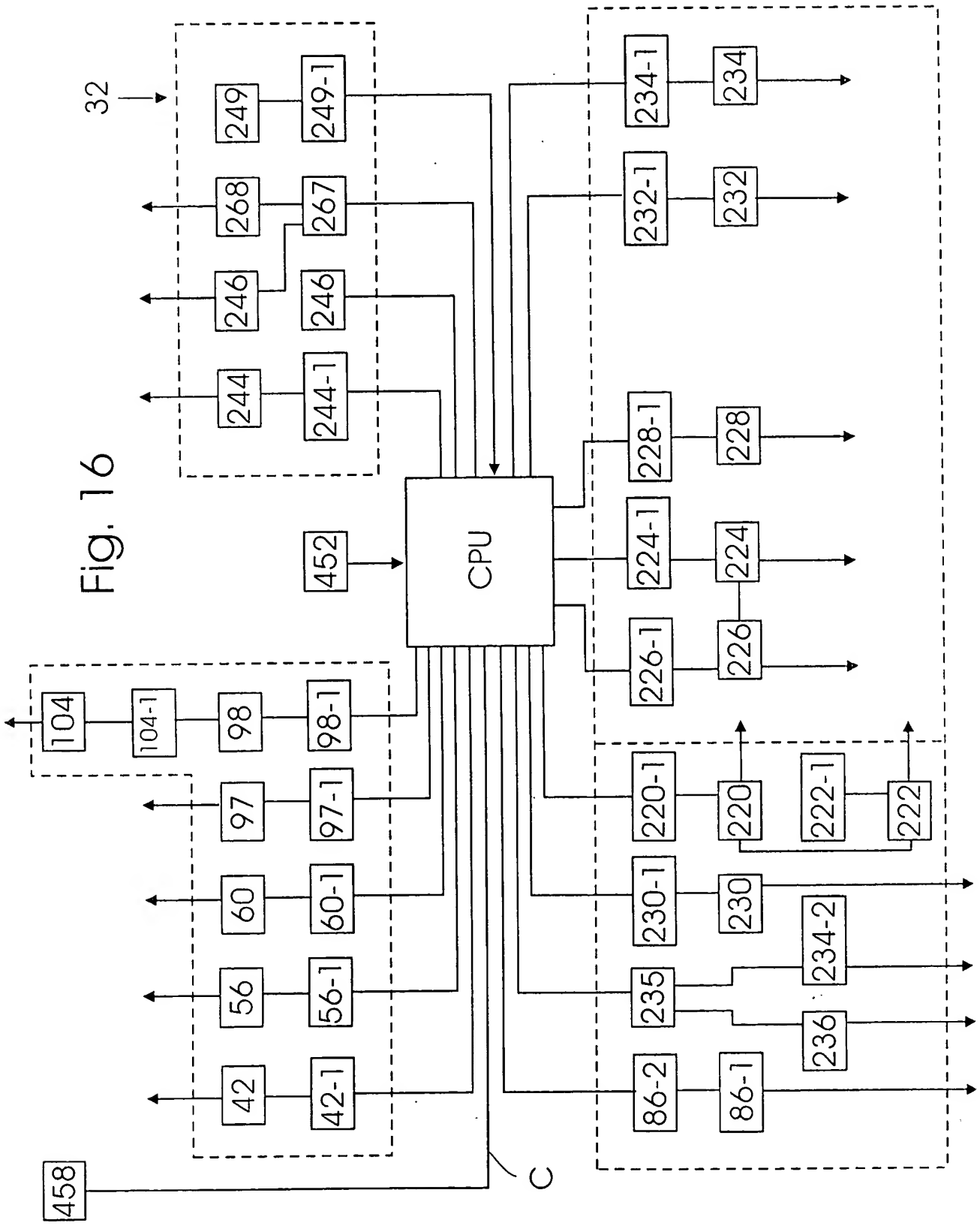
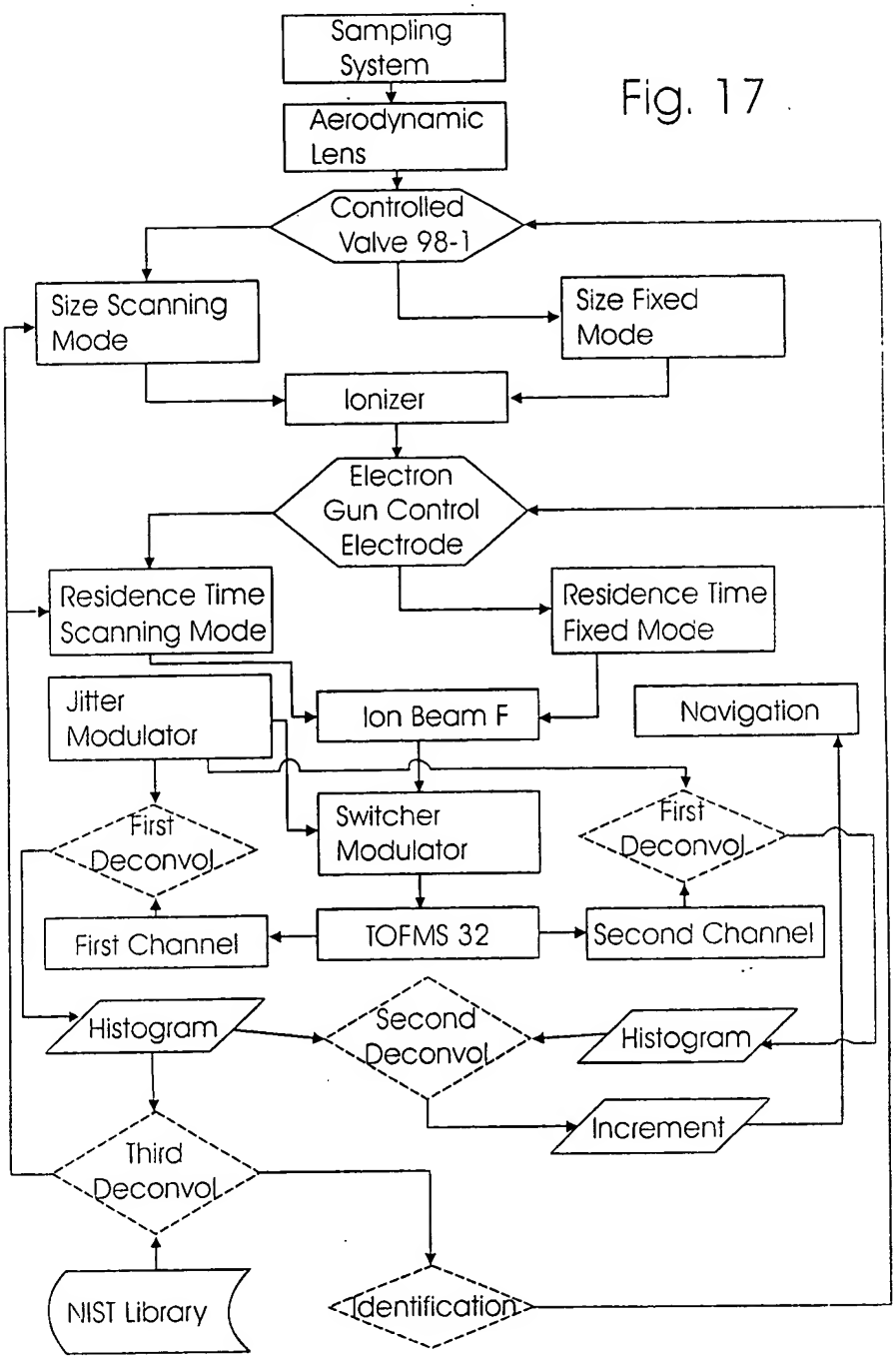

32
249
249-1
268
267
246
246
244
244-1
234-1
234
232-1
232
228-1
228
224-1
224
226-1
226
452
CPU
104
104-1
98
98-1
97
97-1
60
60-1
56
56-1
42
42-1
220-1
220
222-1
222
230-1
230
235
234-2
236
86-2
86-1
458
C

Fig. 17


Sampling System
Aerodynamic Lens
Controlled Valve 98-1
Size Scanning Mode
Size Fixed Mode
Ionizer
Electron Gun Control Electrode
Residence Time Scanning Mode
Residence Time Fixed Mode
Jitter Modulator
Ion Beam F
Navigation
First Deconvol
Switcher Modulator
First Deconvol
First Channel
TOFMS 32
Second Channel
Histogram
Second Deconvol
Histogram
Increment
Third Deconvol
NIST Library
Identification